

LIQUID LEVEL ASSEMBLY WITH DIAPHRAGM SEAL

Abstract of Disclosure

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amb 5 ~~The present invention provides~~ ^A a liquid level assembly for controlling liquid levels, ~~the liquid level assembly having~~ ^{HAS} a switching mechanism responsive to the liquid head to activate a pump. A housing assembly has an internal cavity in which the switching mechanism is supported, the housing assembly having an open end sealed by a diaphragm seal having a flexible planar portion that transmits head pressure to the switching mechanism. The diaphragm seal also has a peripheral web

10 portion and a flexible bellows portion connecting the flexible planar portion and the peripheral web portion. The peripheral web portion has a peripheral sealing bead that is sealingly compressed against a groove in the housing assembly, and a plurality of knob members extend from the peripheral web to press against the switching

15 assembly, thereby accommodating manufacturing dimensional tolerances of the switching mechanism.